

FIG. 2

Trusted program sends data packets with defined rules of transmission, with high priority - DiffServ or other asynchronous and time-driven priority protocols

- Consequently, only such data packets will get premium service and will not be subject to DoS

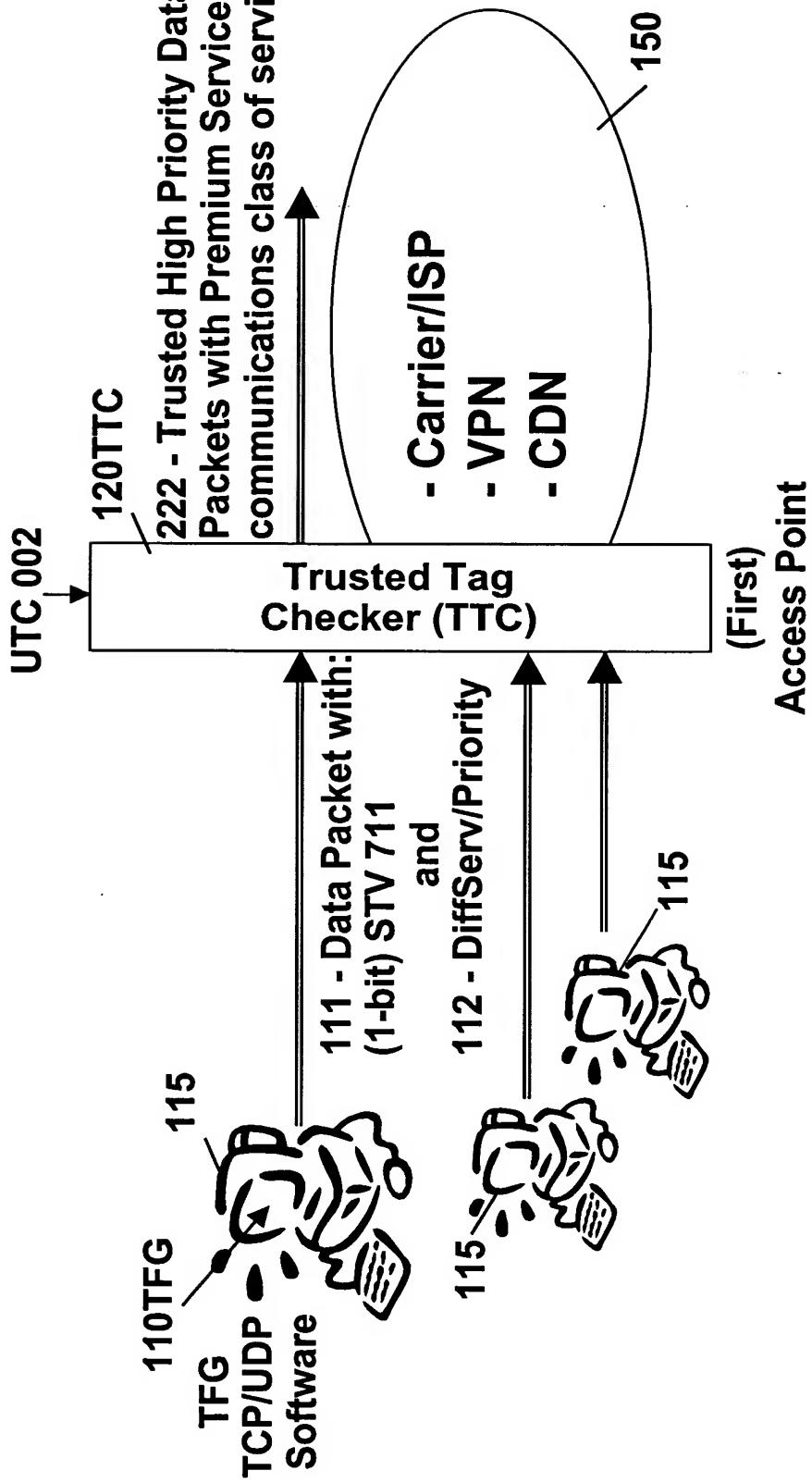


FIG. 3

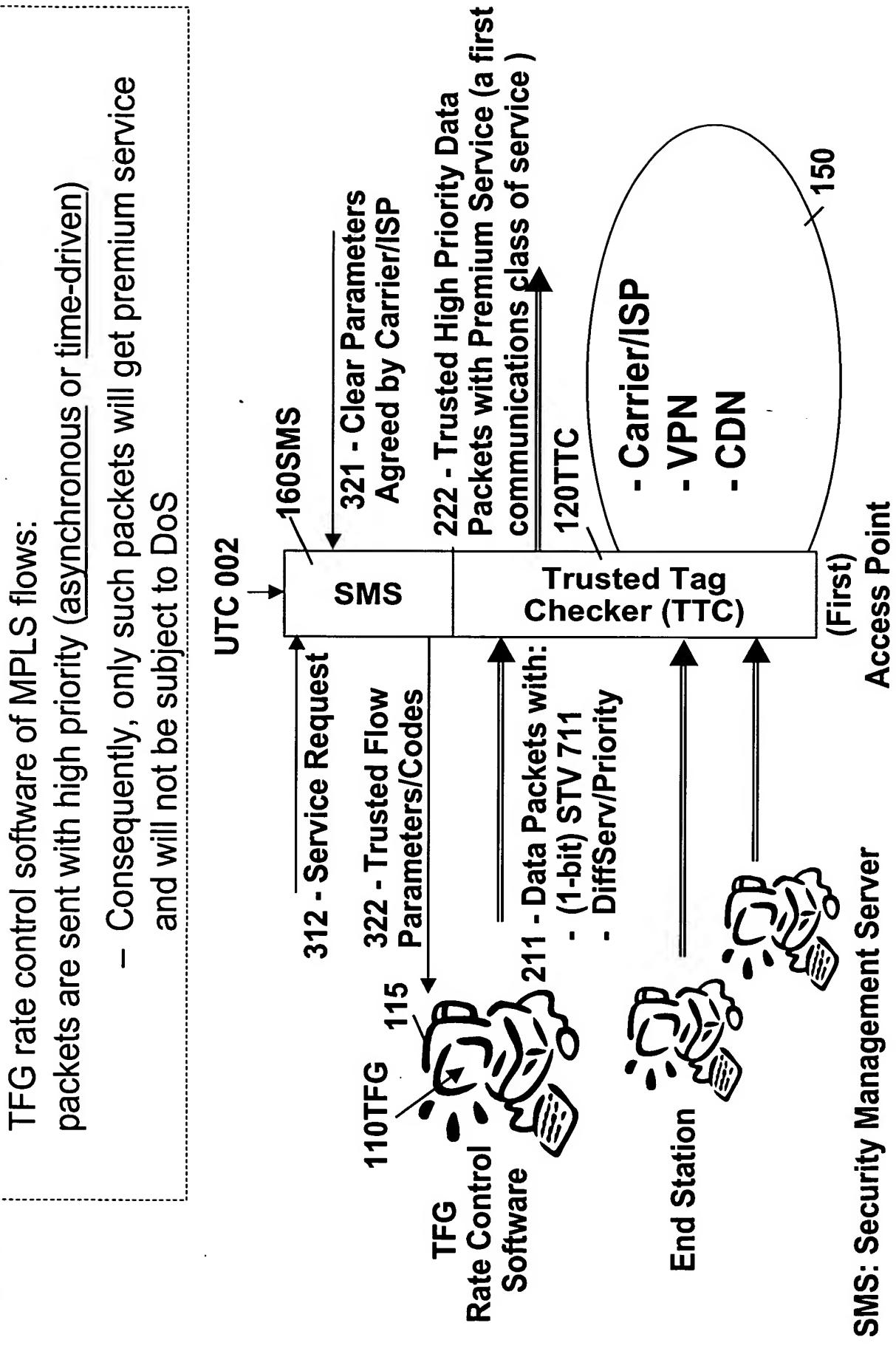


FIG. 4

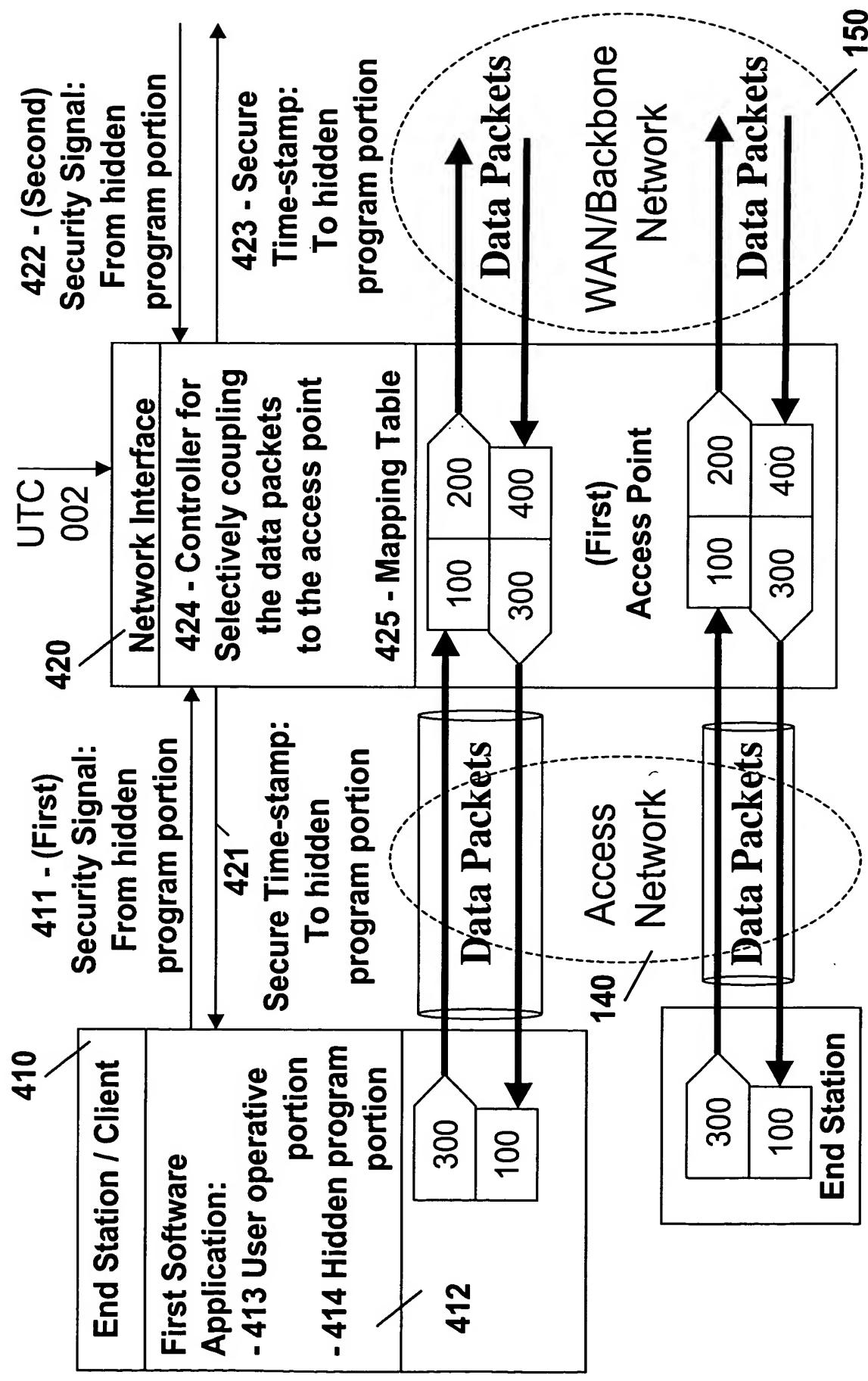


FIG. 5

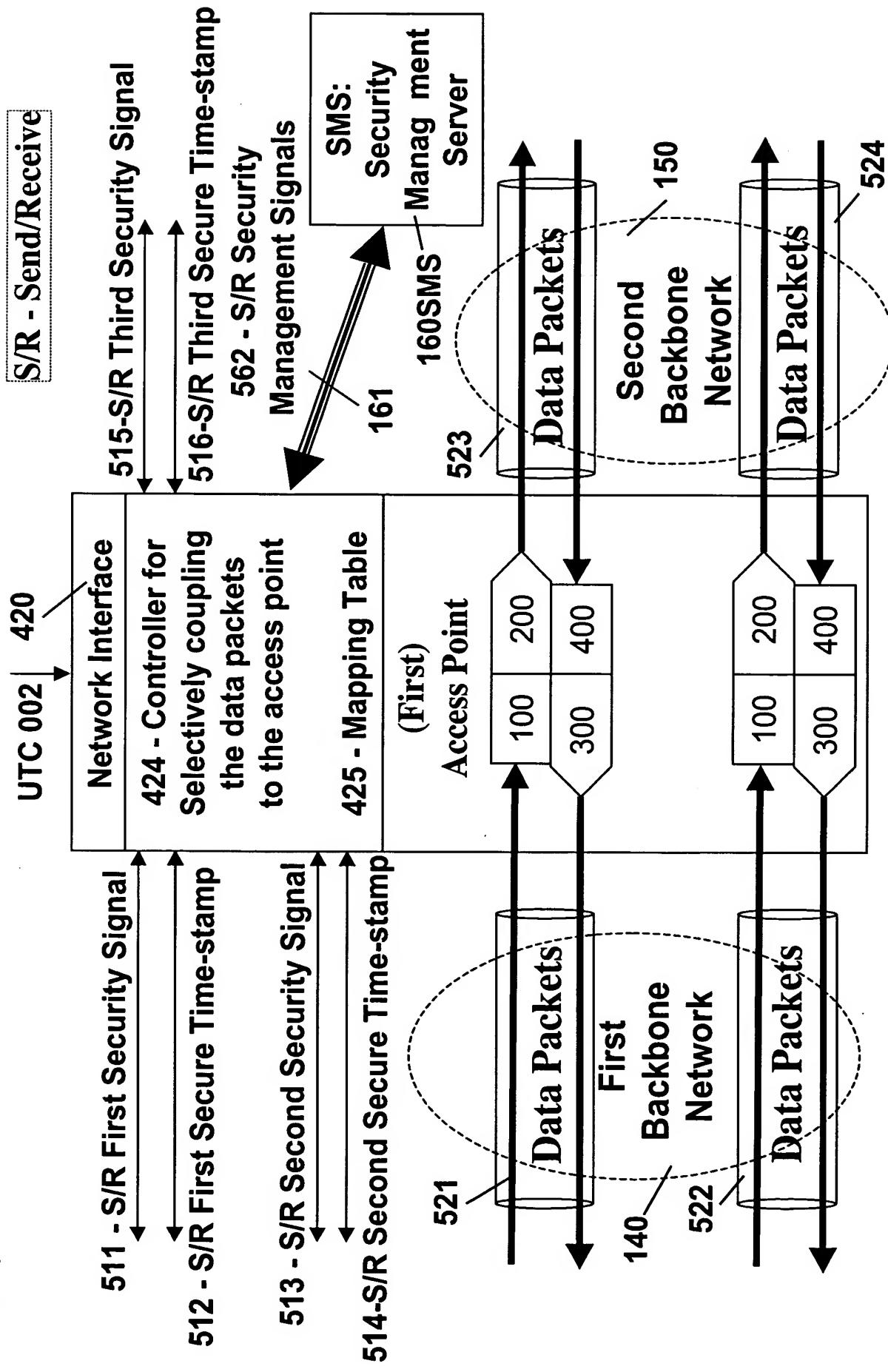
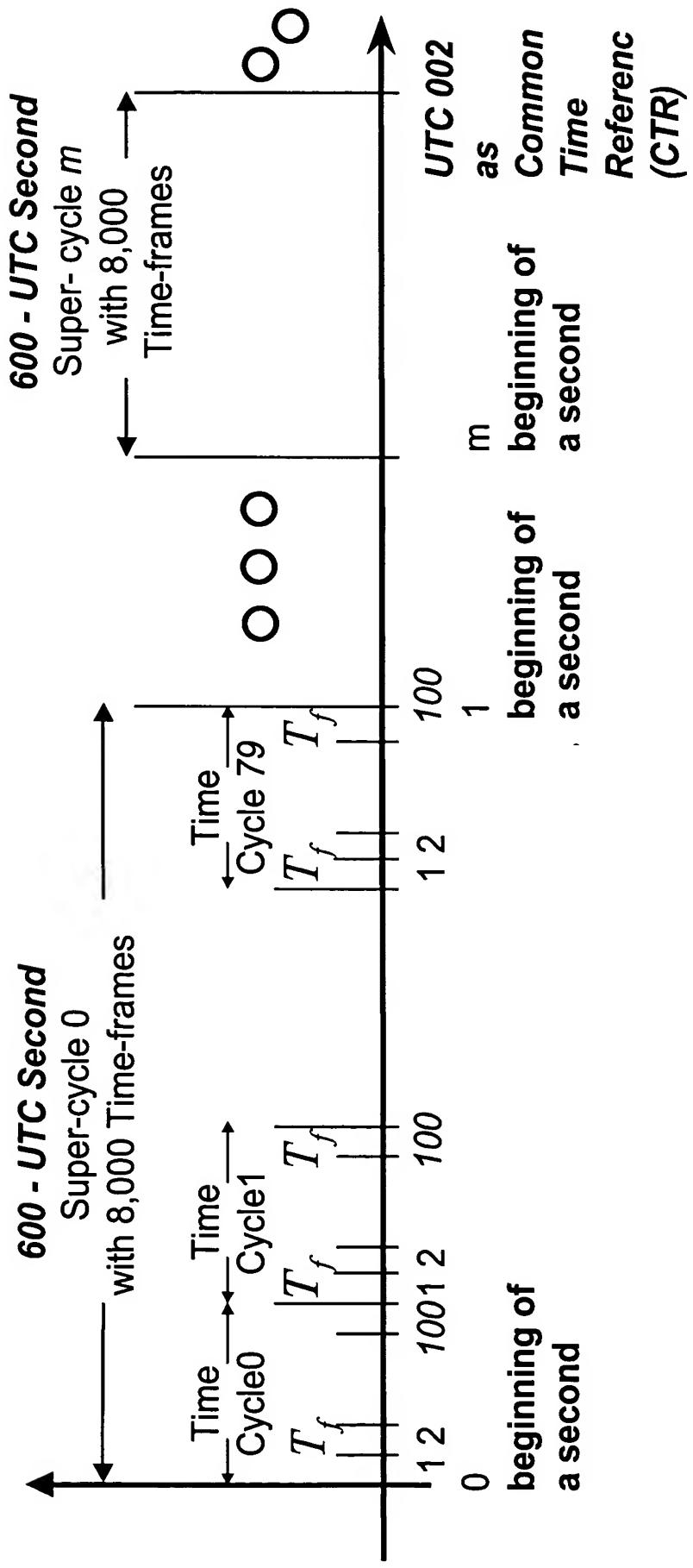


FIG. 6



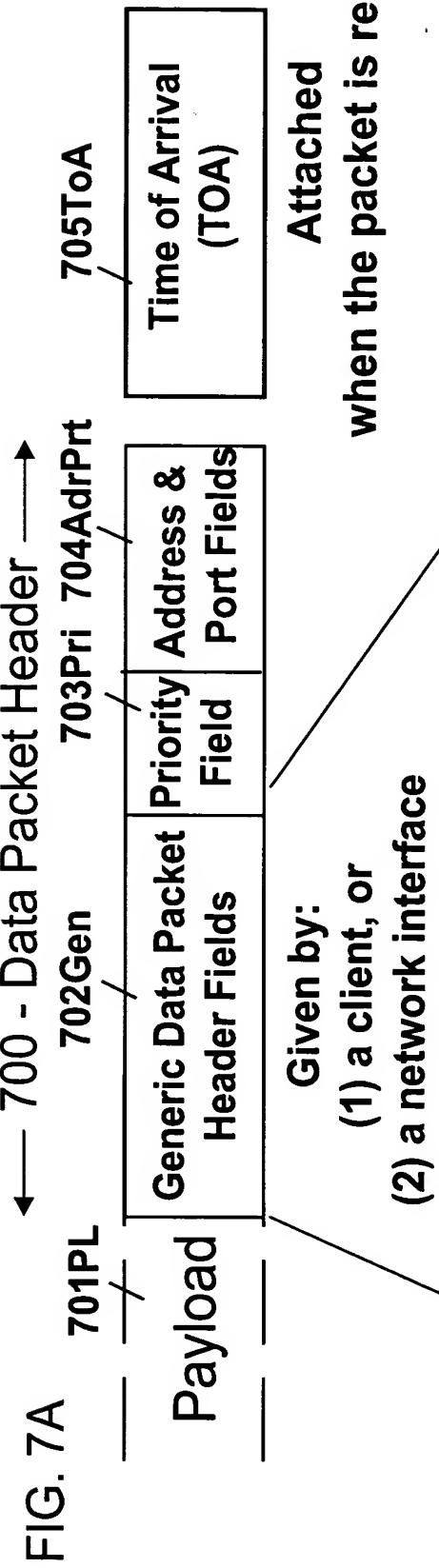


FIG. 7B

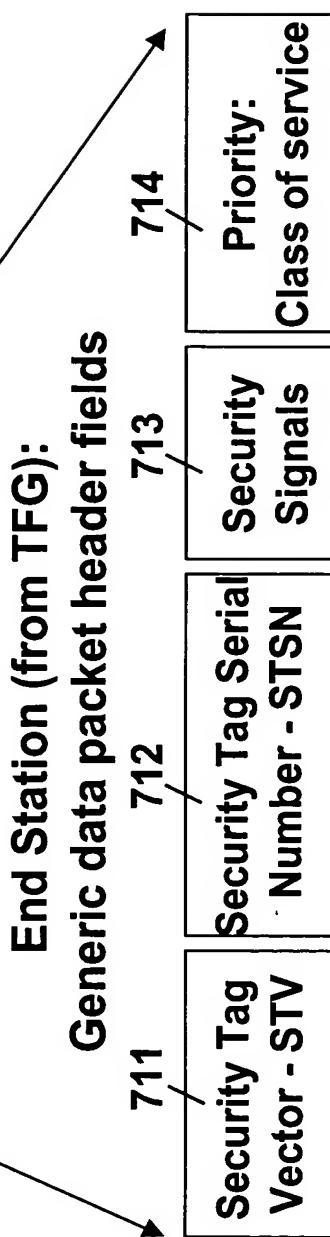


FIG. 7C

Network Interface (from TTC and SMS):

Generic data packet header fields

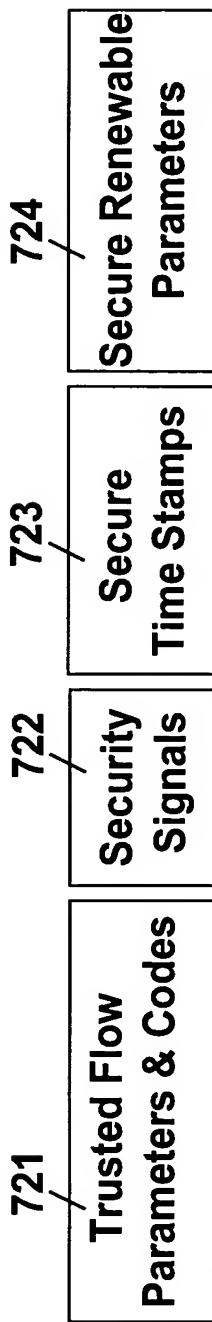


FIG. 8 Trusted Flow Generator (TFG) Software (functional description):
as part of the hidden program portion (first computing element)
810

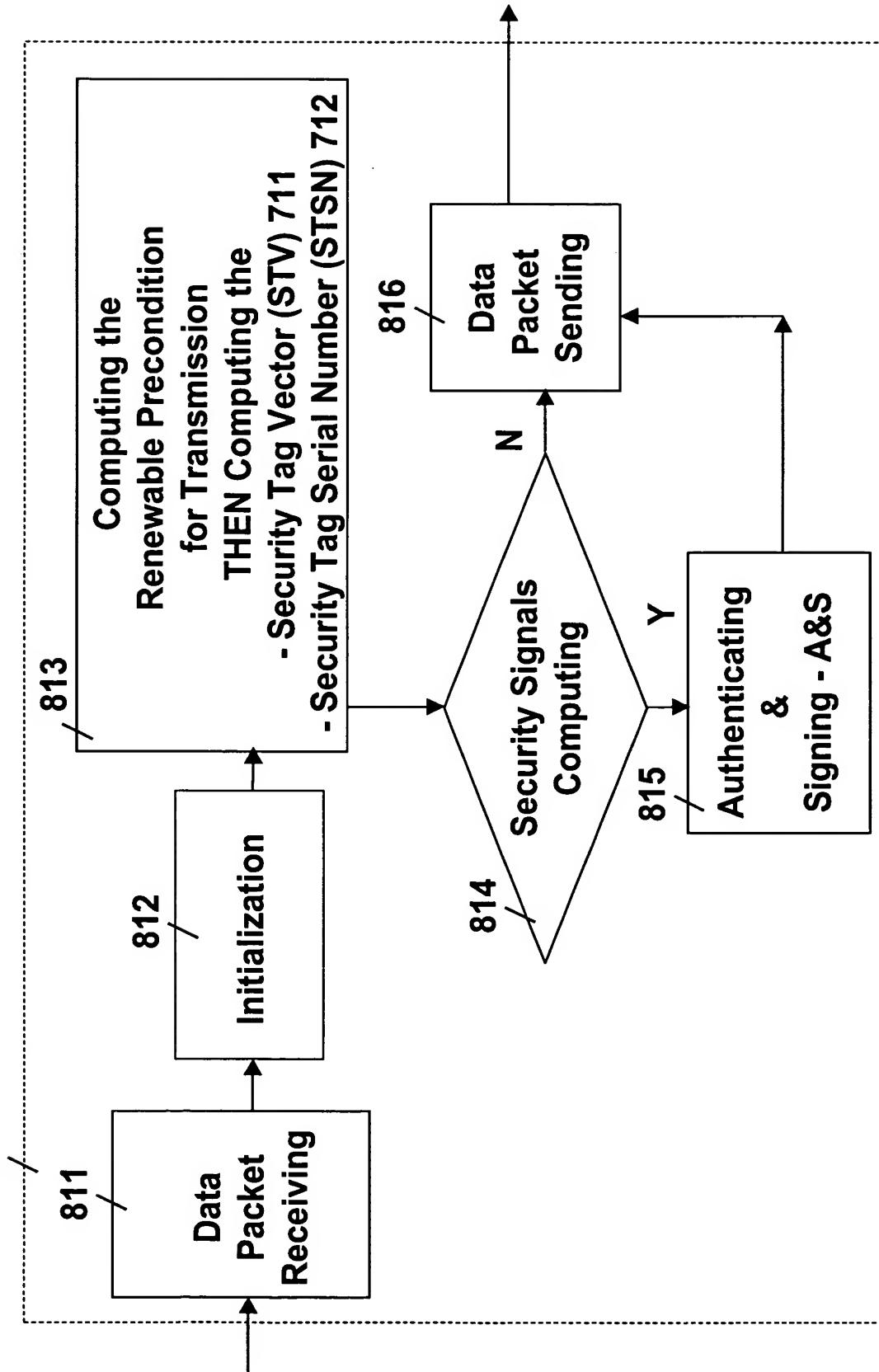


FIG. 9 Trusted Tag Checker (TTC) Operation (functional description):
(second computing element)

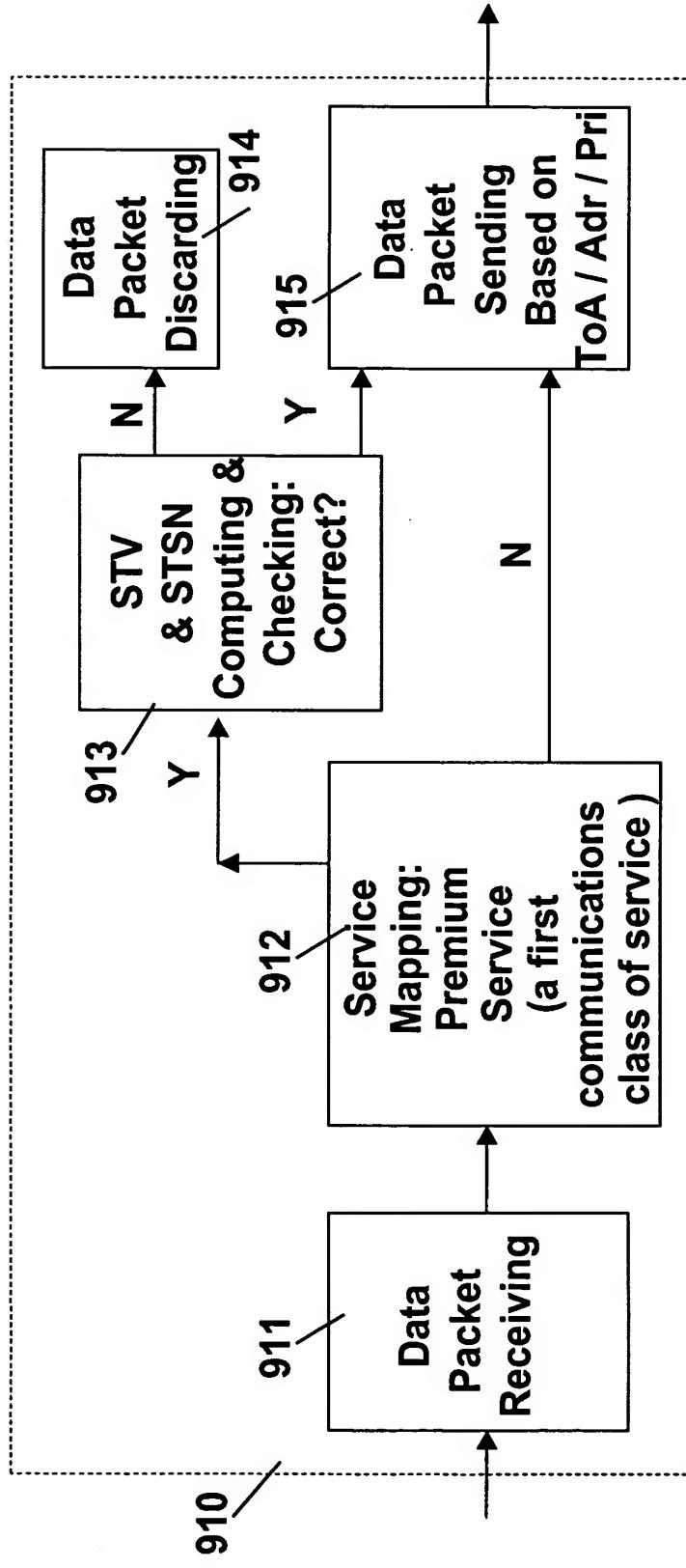


FIG. 10
Trusted Flow Generator (TFG) - 110TFG (first computing element)

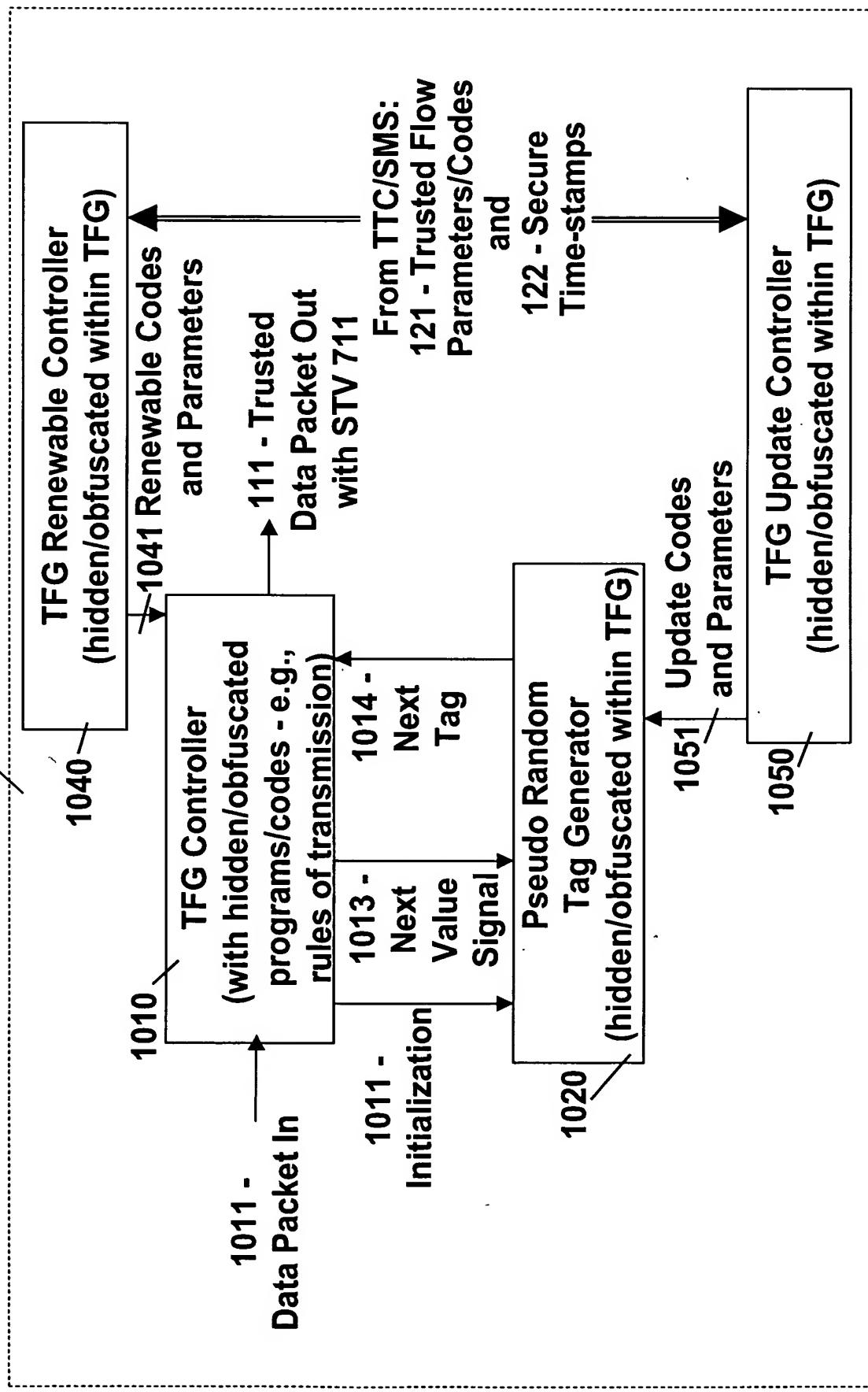


FIG. 11
Trusted Tag Checker (TTC) - 120TTC (second computing element)

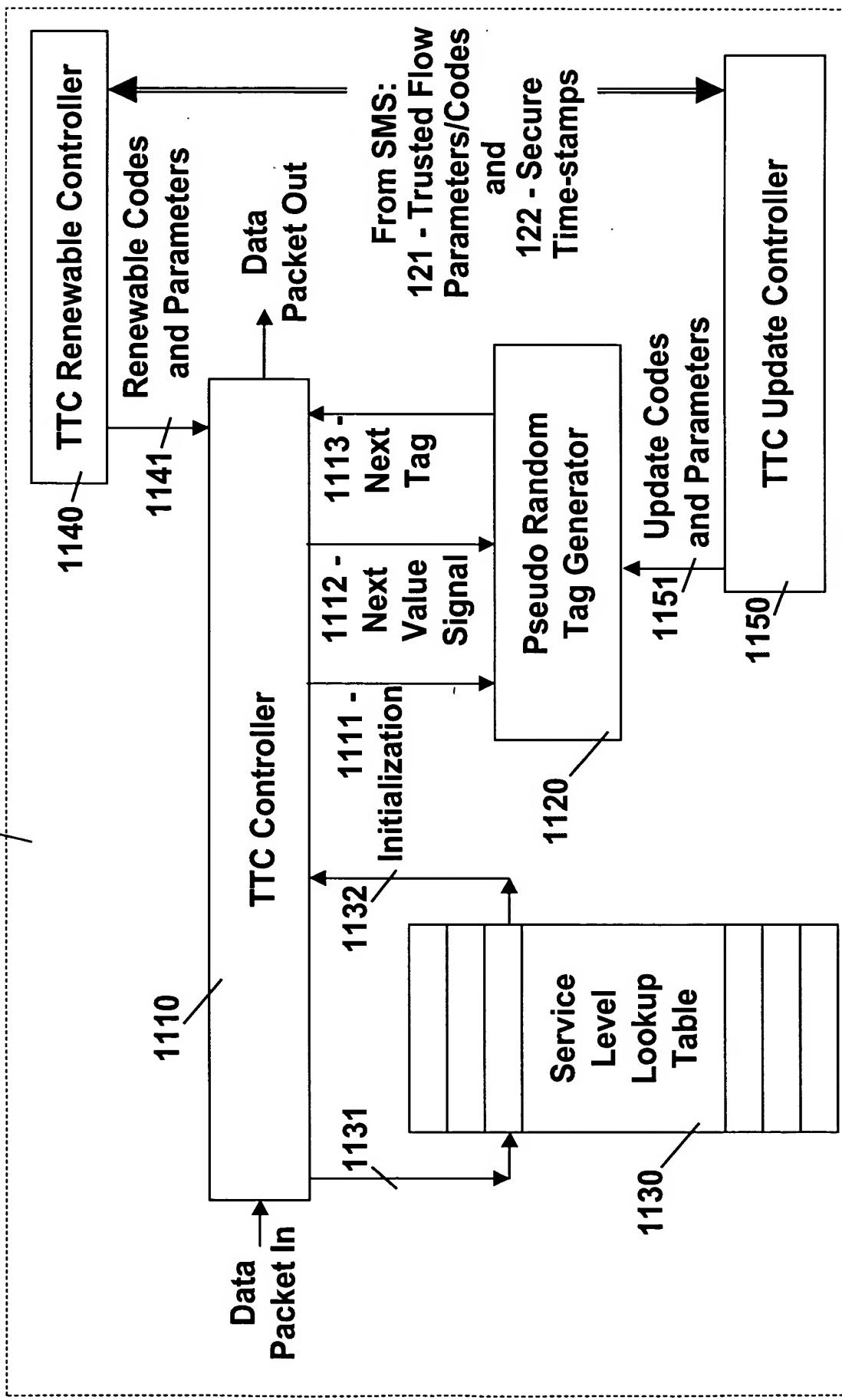


FIG. 12A

1211 - Interlocking Parameters (e.g., Random Bit Stream)

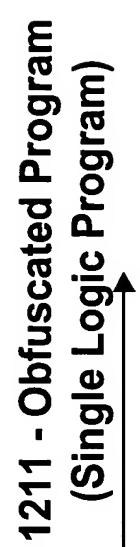


FIG. 12B

FIG. 12C

FIG. 12D

1212 - Plain Program - Logic Modules



1211 - Interlocking Parameters (e.g., Random Bit Stream)

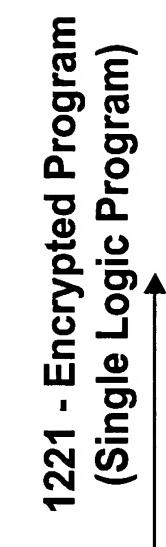


FIG. 12C

1212 - Plain Program - Logic Modules

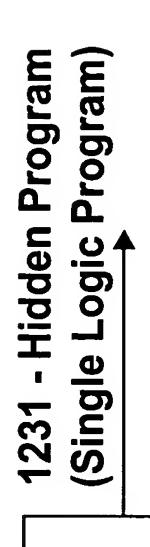


FIG. 12D

1221 - Encrypted Program (Single Logic Program)

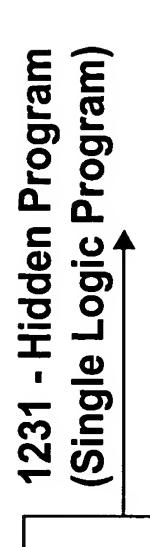


FIG. 12C

1231 - Hidden Program (Single Logic Program)

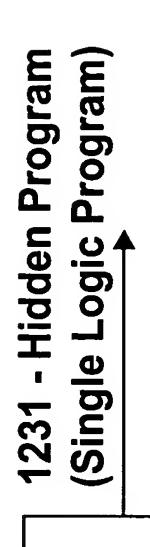


FIG. 12D

1241 - Object Program (Single Logic Program)

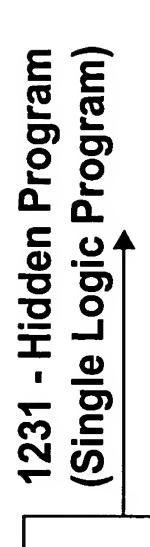


FIG. 12D

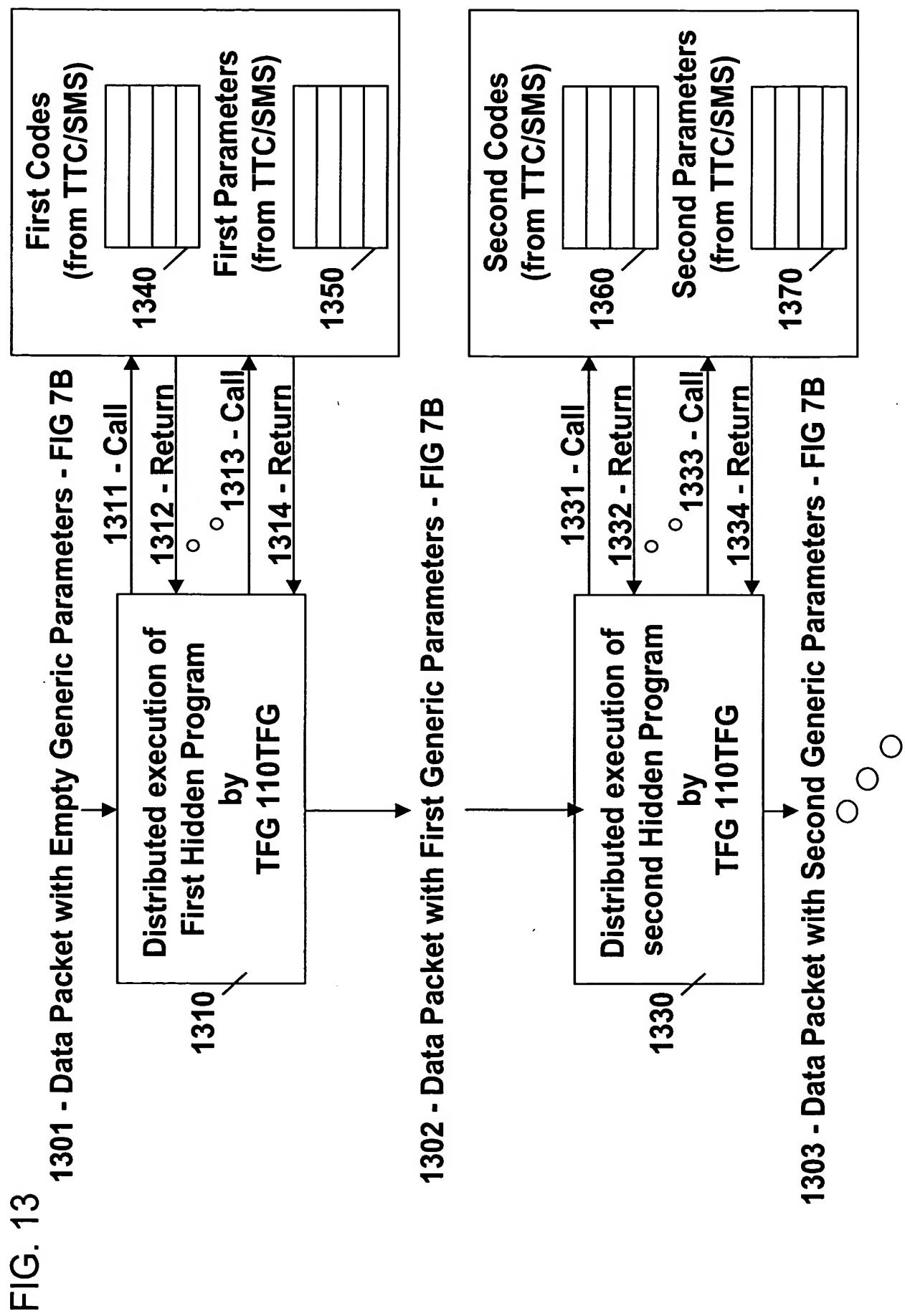


FIG. 14

1212 - Plain Program components

1. Well-behaved operational program (e.g., TCP)
with defined rules of transmission
2. Cryptographic program (e.g., security tag vector (STV) generator)
3. Parameter table (e.g., pseudo random seed)
4. Control program (e.g., for automatic refresh parameters)

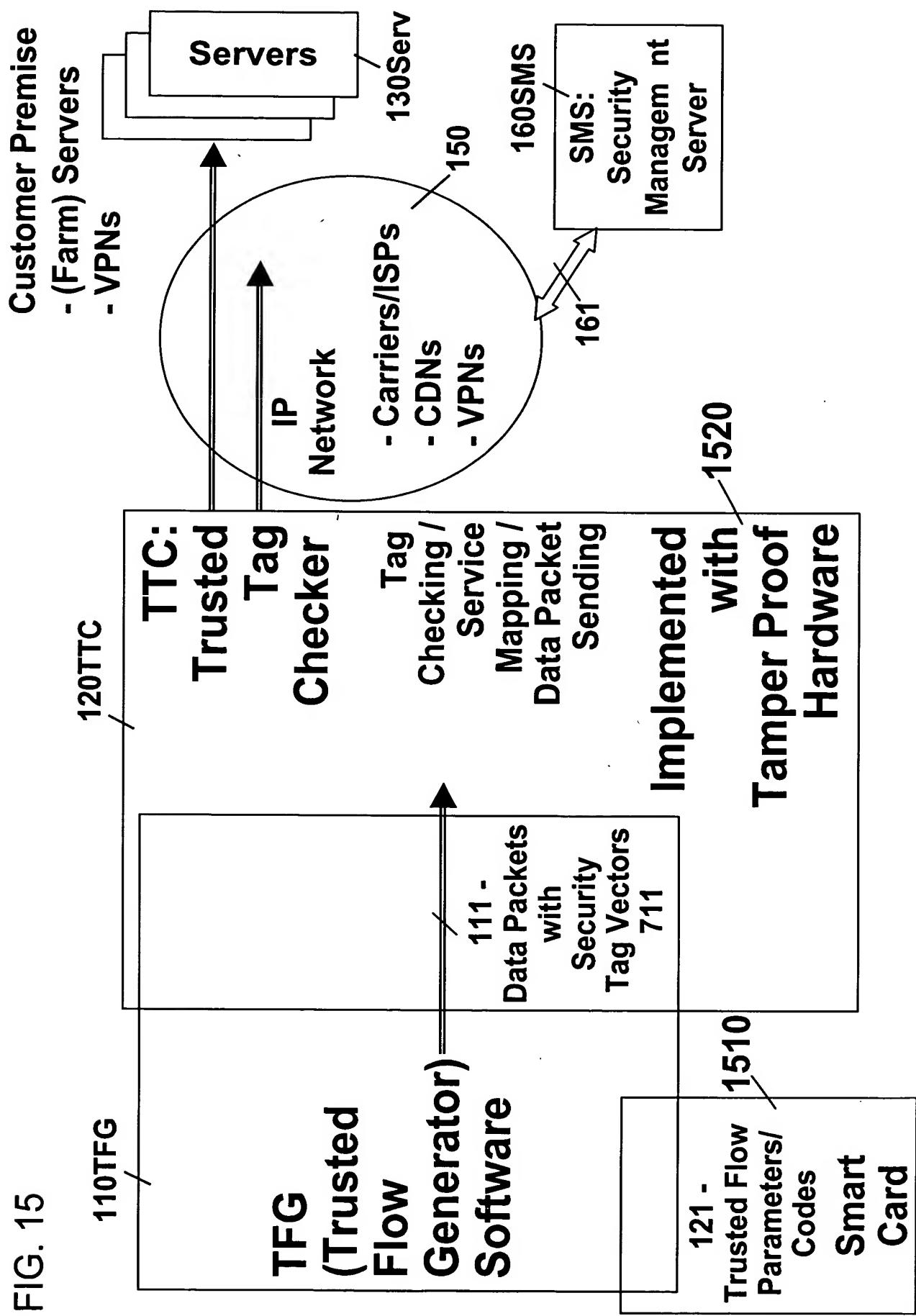


FIG. 15

FIG. 16

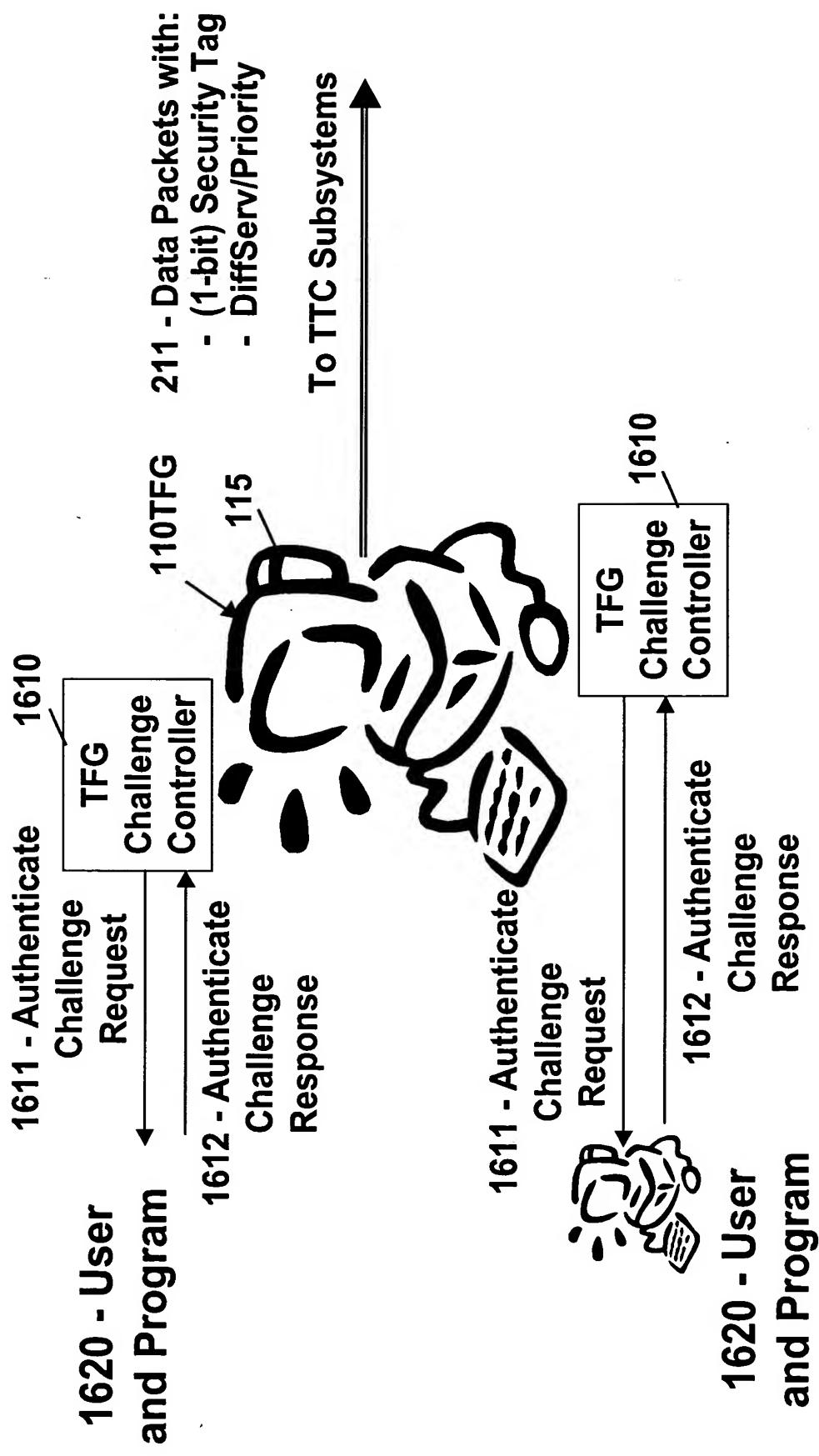
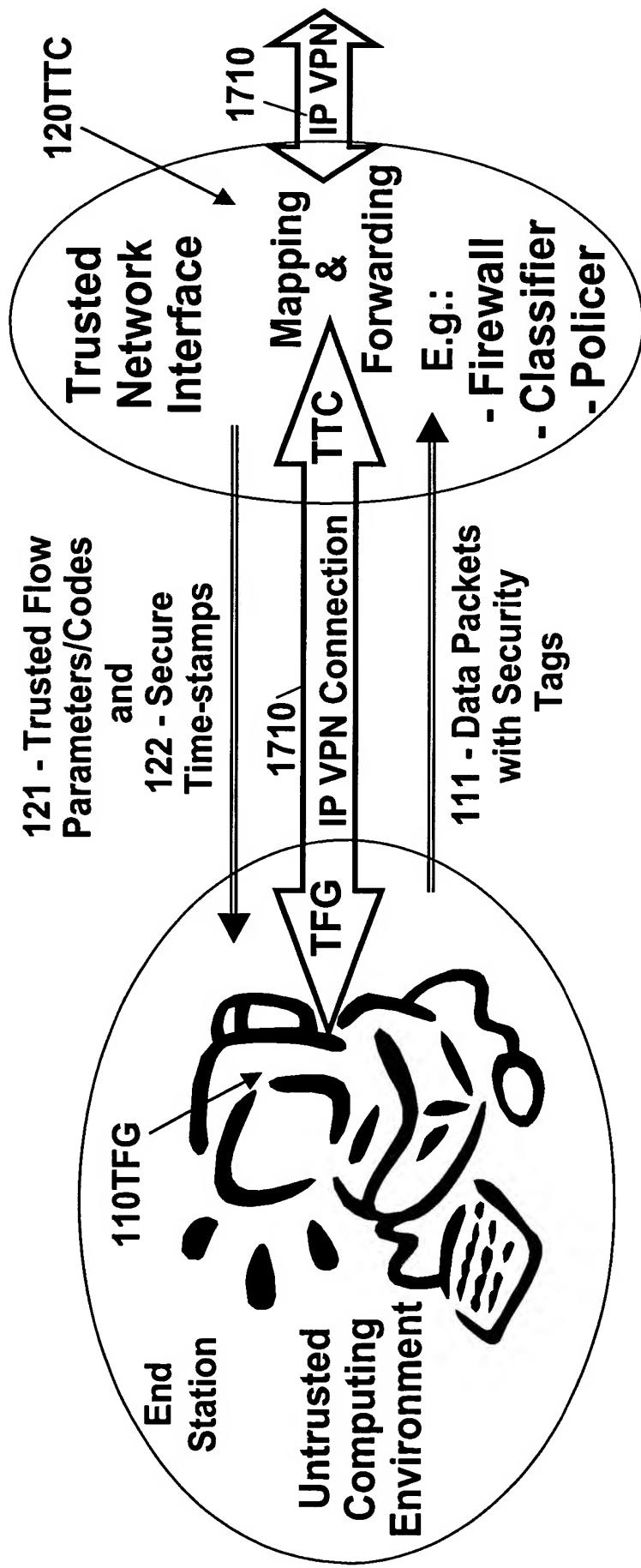


FIG. 17

**Relying on Trusted Network Interface
To Create Trusted Data IP Packet Flows
Through IP Virtual Private Network (VPN) Connections - 2810**



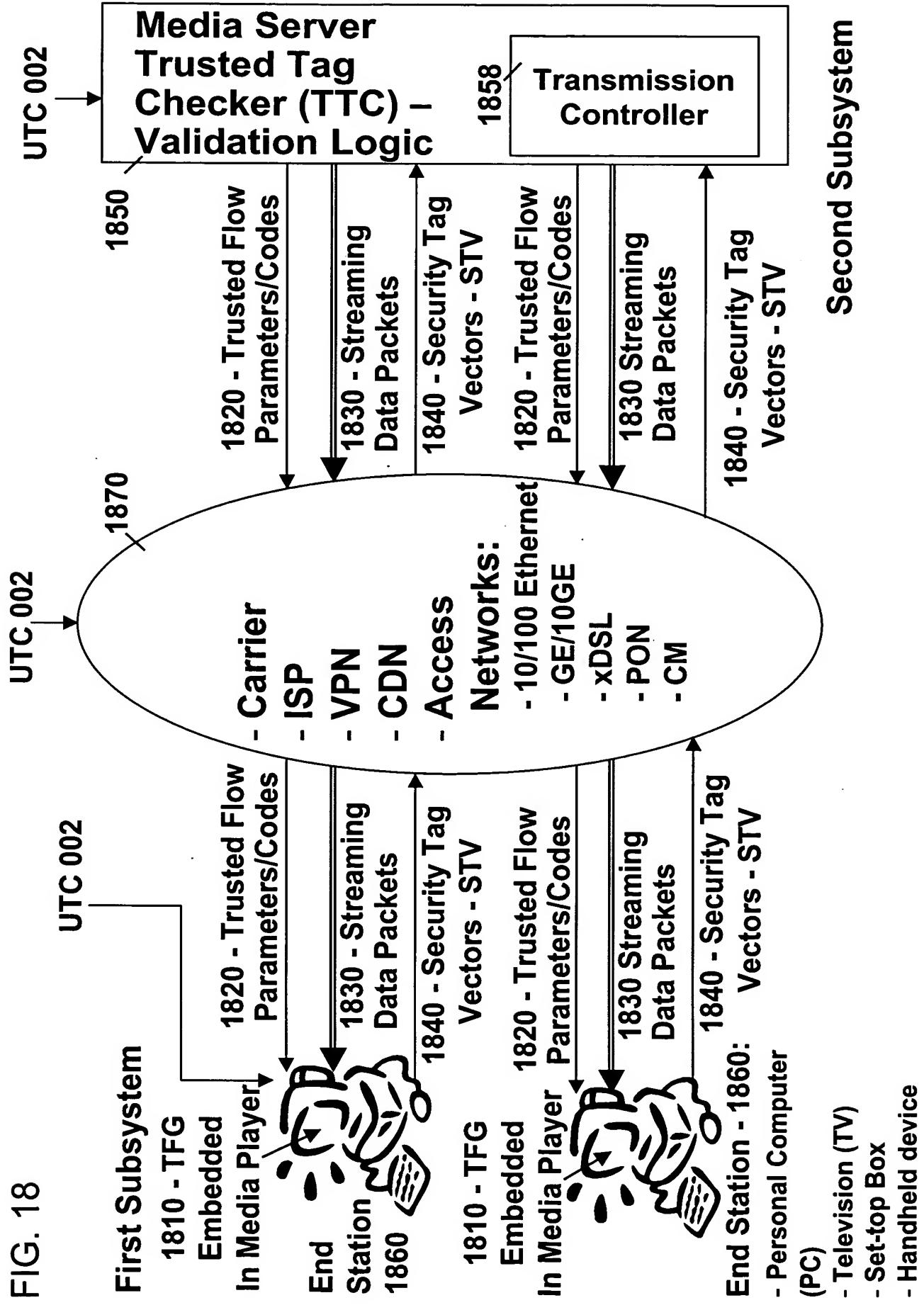


FIG. 19

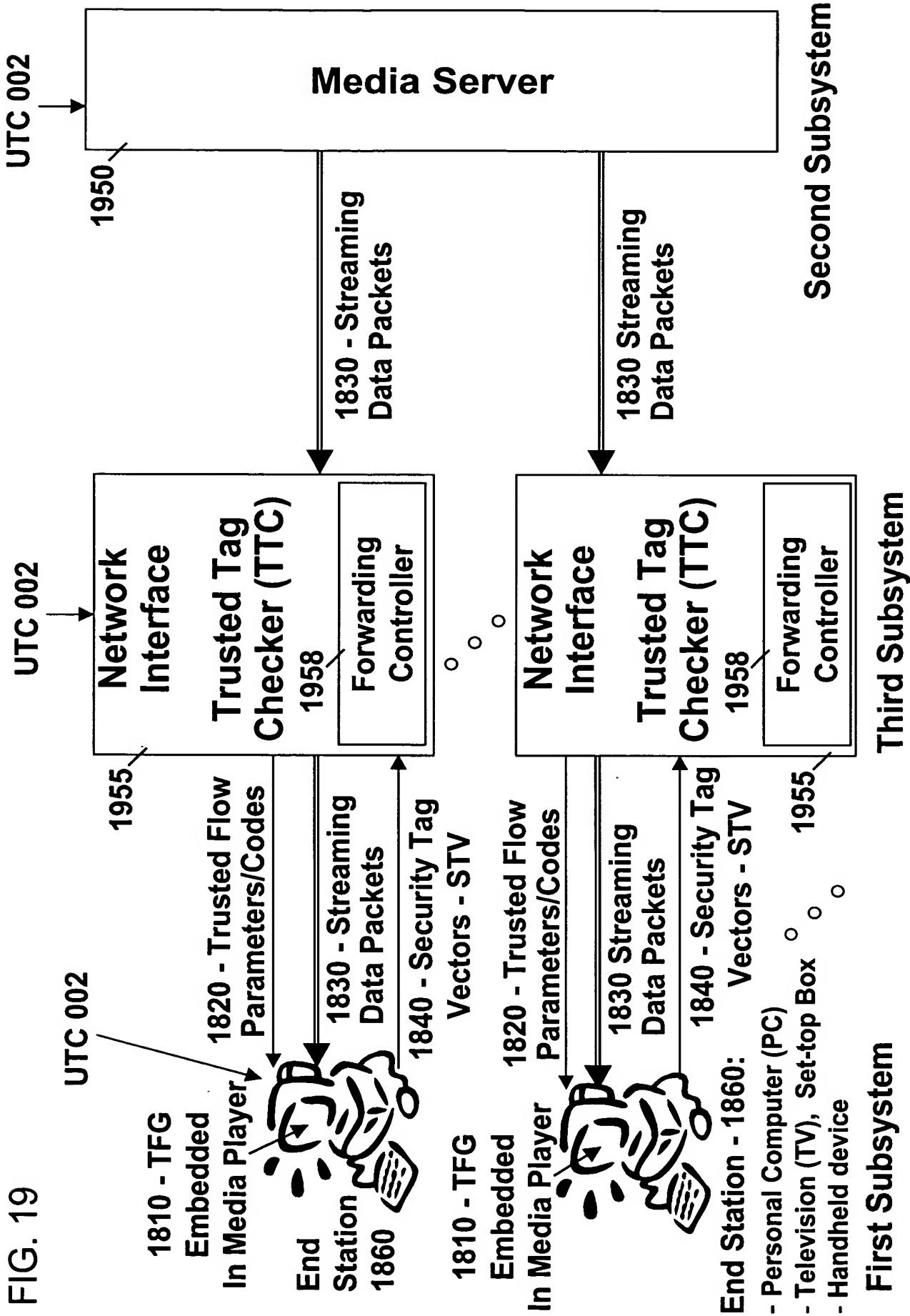


FIG. 20 Operation of the transmission controller 1858 of a subsystem (e.g., a Media Server with Trusted Tag Checker (TTC) – 1850) regulating the Transmission of Streaming Data Packets

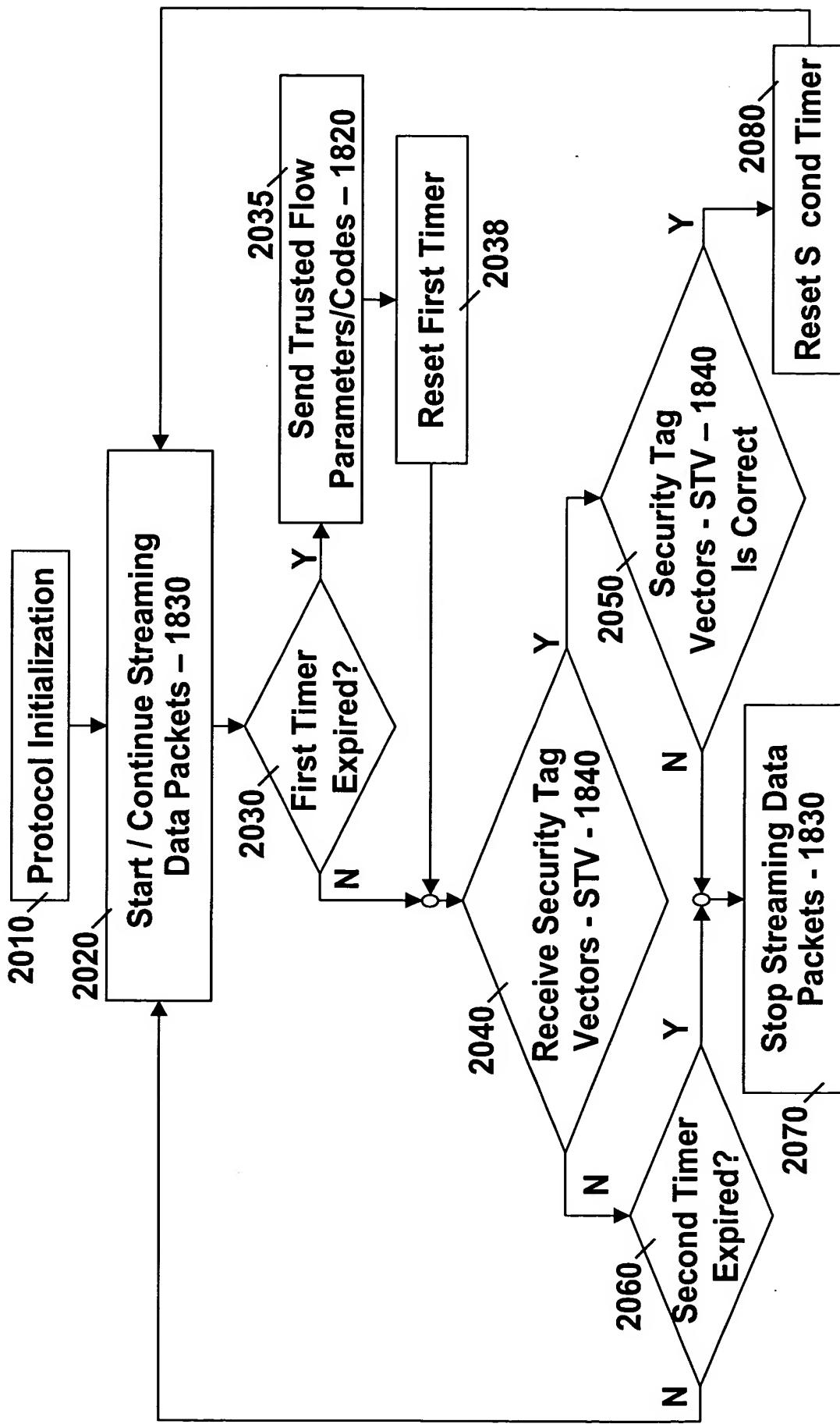


FIG. 21 Trusted Flow Generator (TFG) Embedded in Media Player – Operation 1810

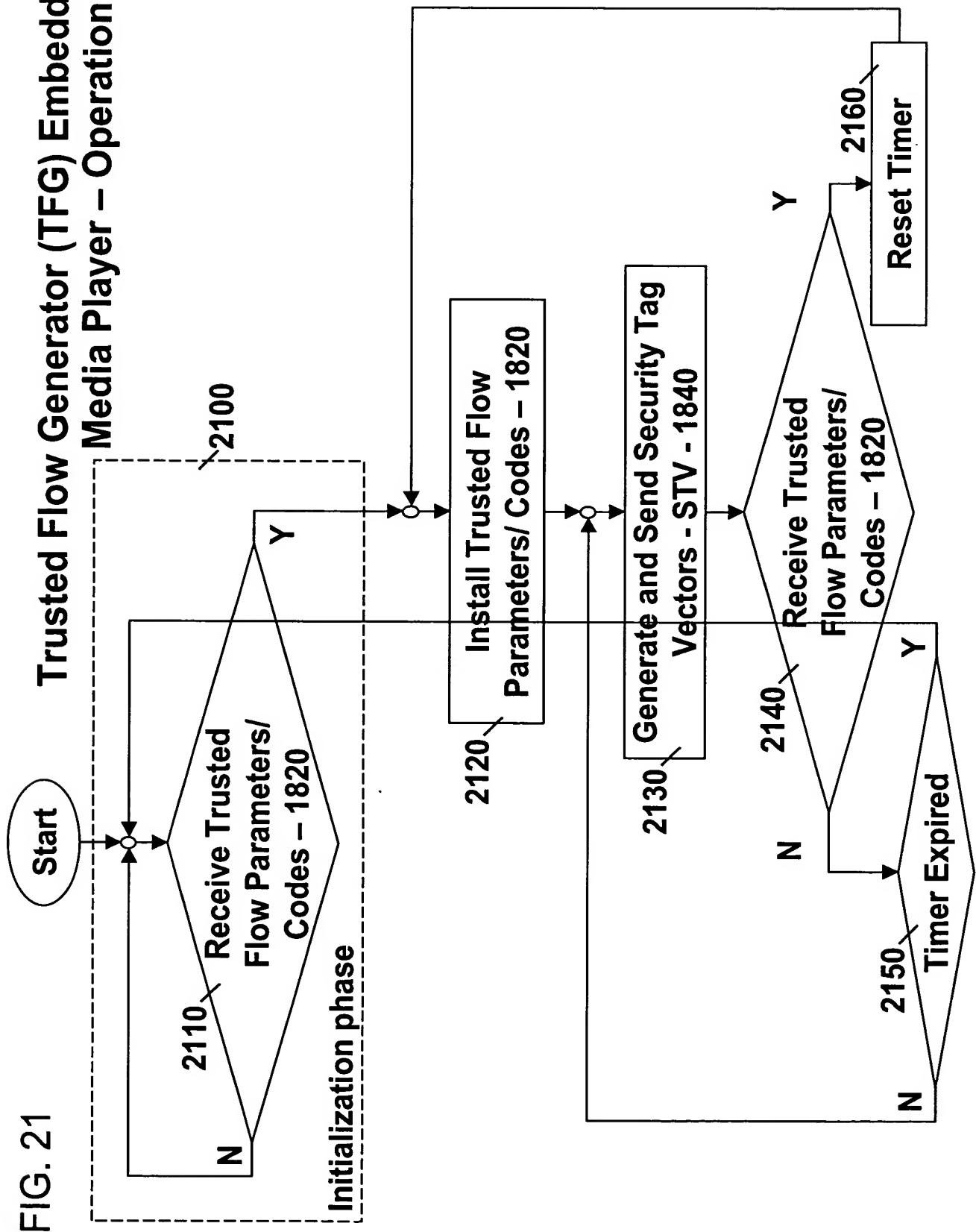
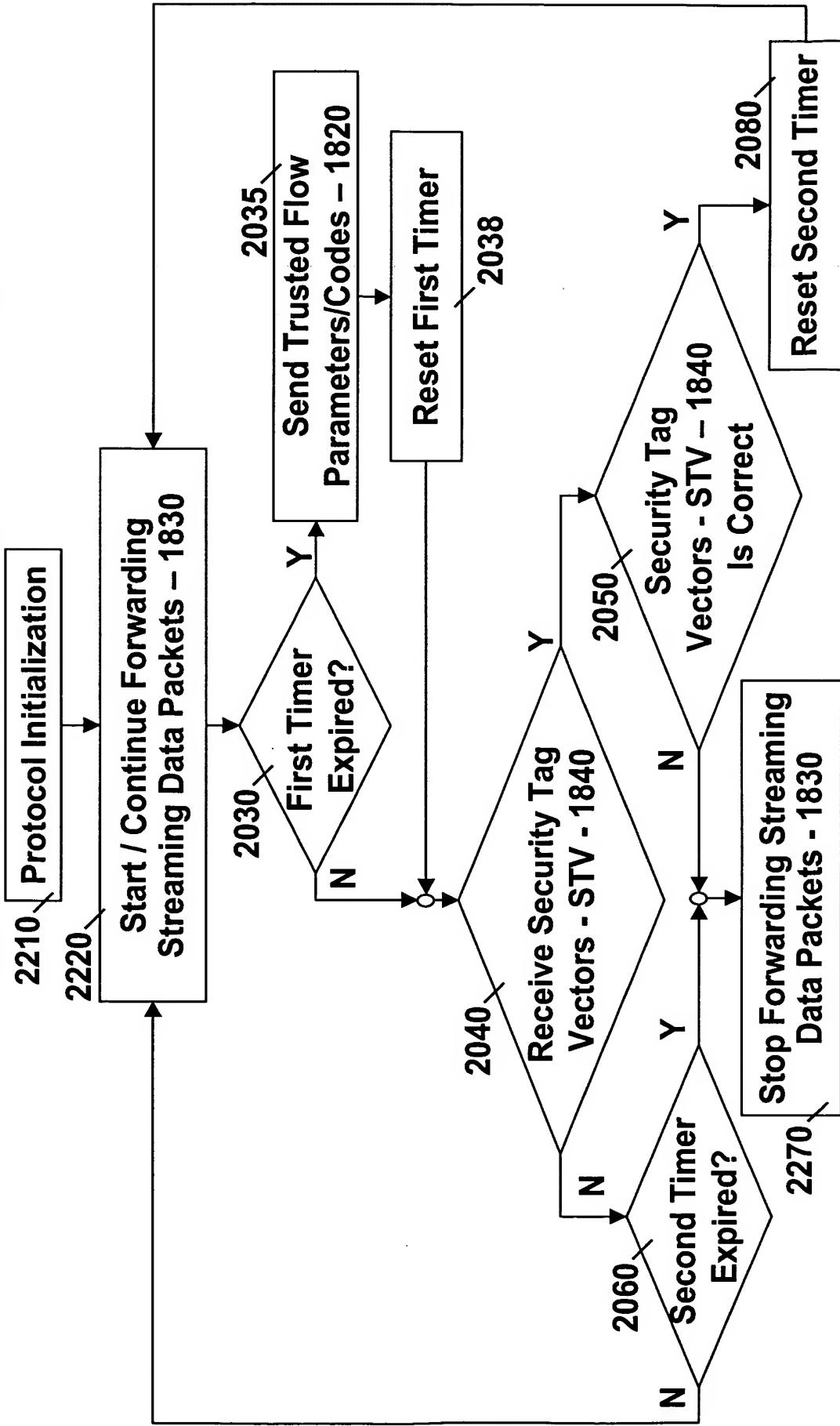
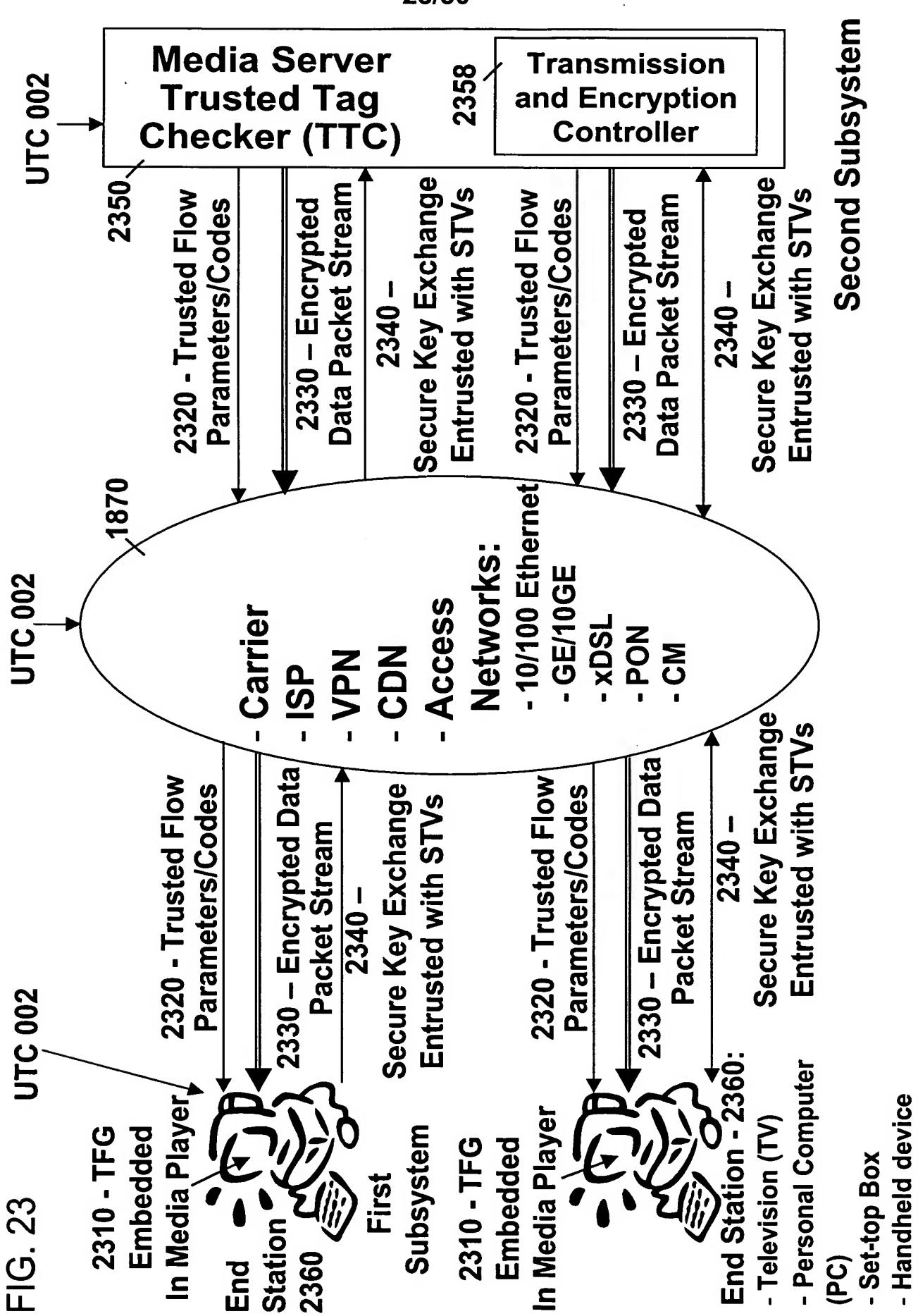
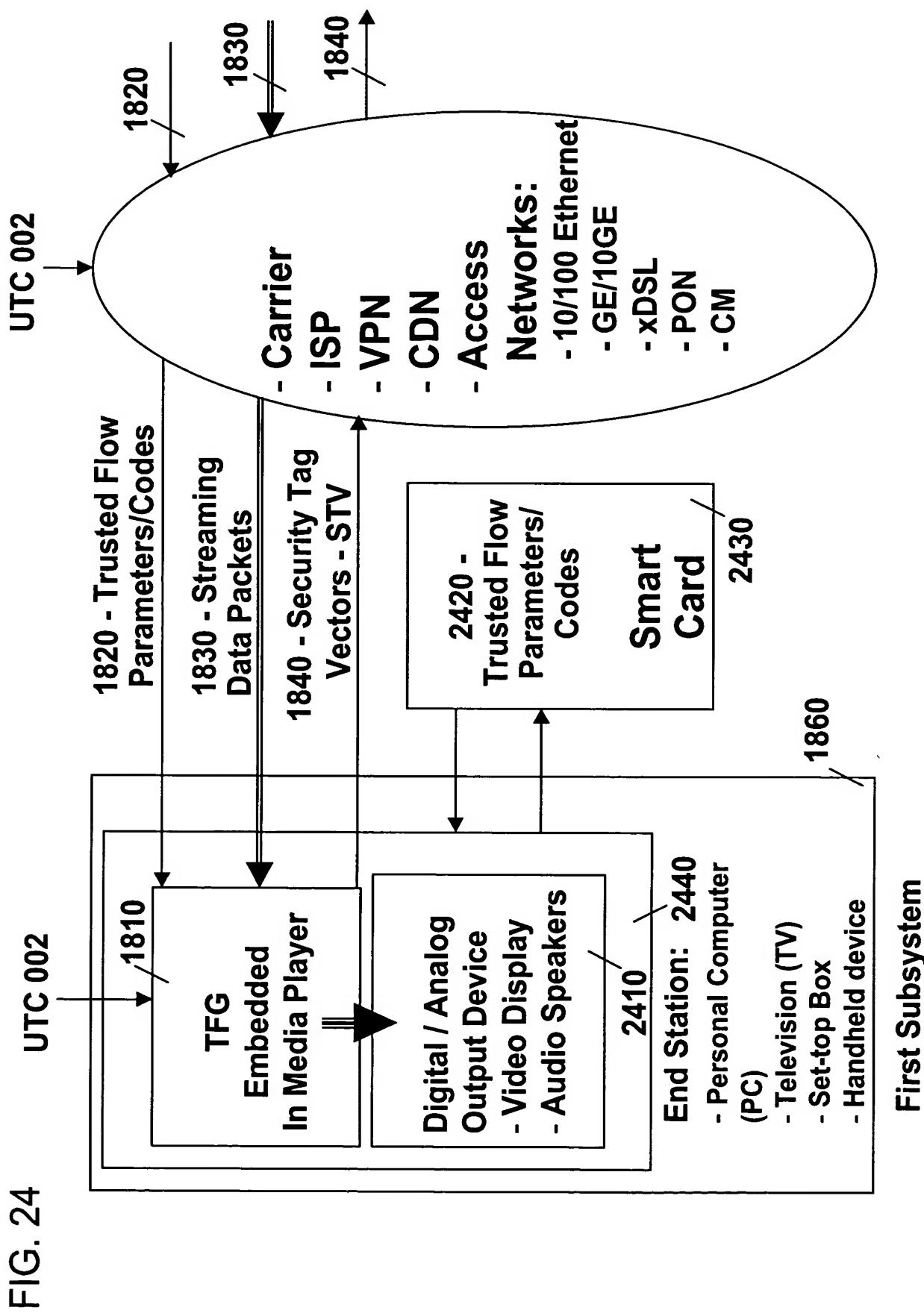


FIG. 22 Operation of the forwarding controller 1958 of a subsystem (e.g., a Network Interface with Trusted Tag Checker (TTC) – 1955) regulating the forwarding of Streaming Data Packets







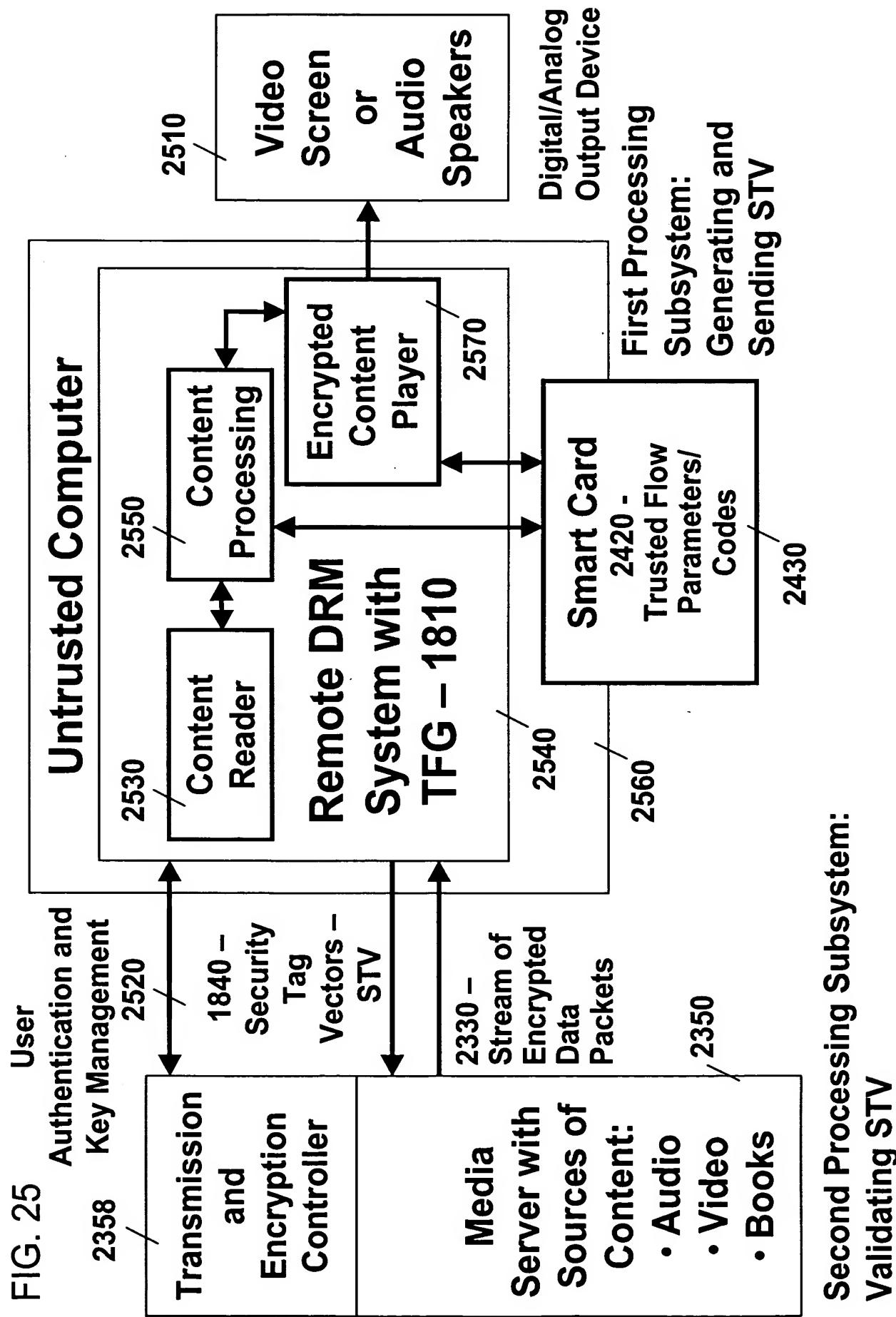


FIG. 26 Operation of the transmission and encryption controller 2358

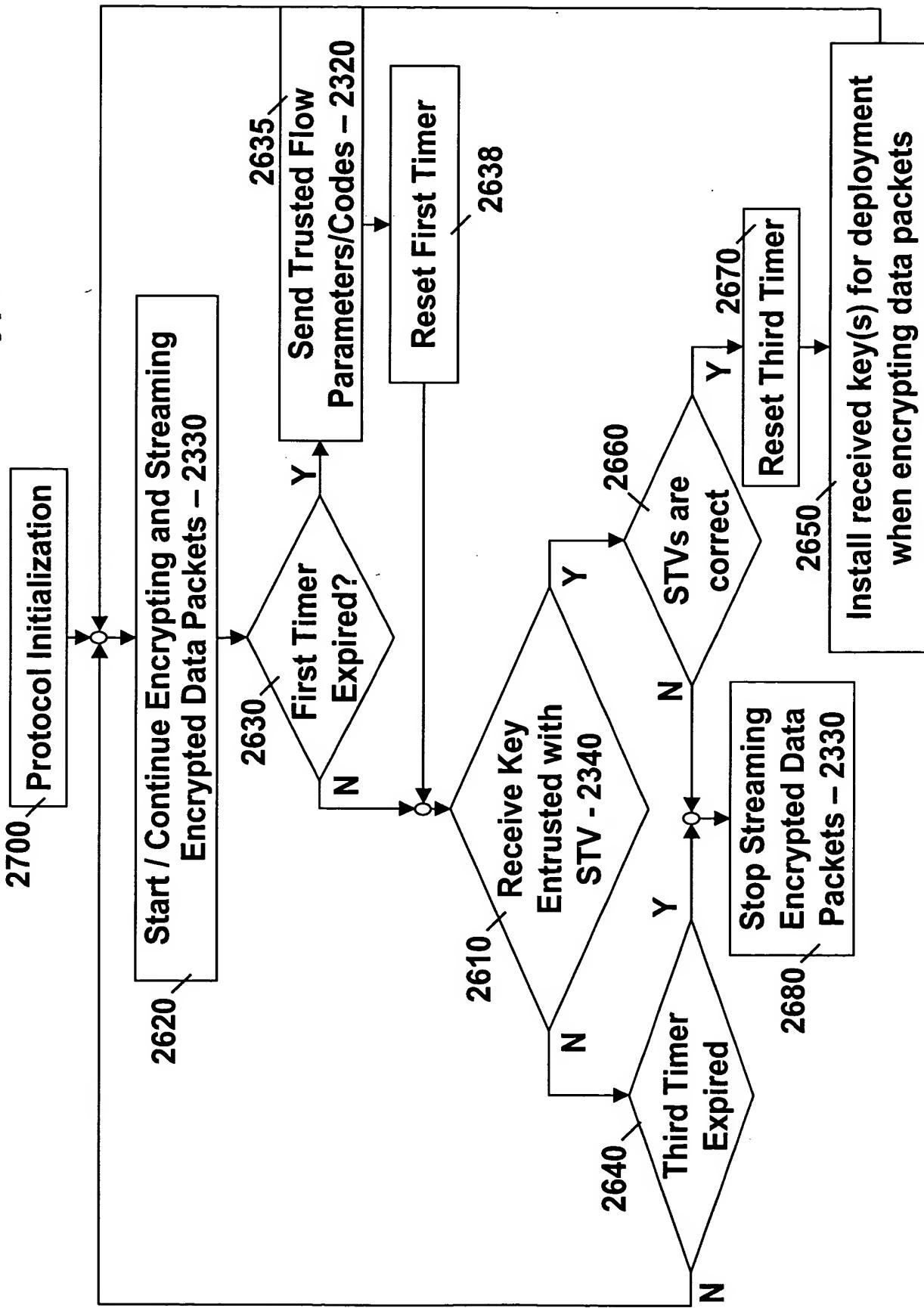


FIG. 27 Protocol Initialization - 2700

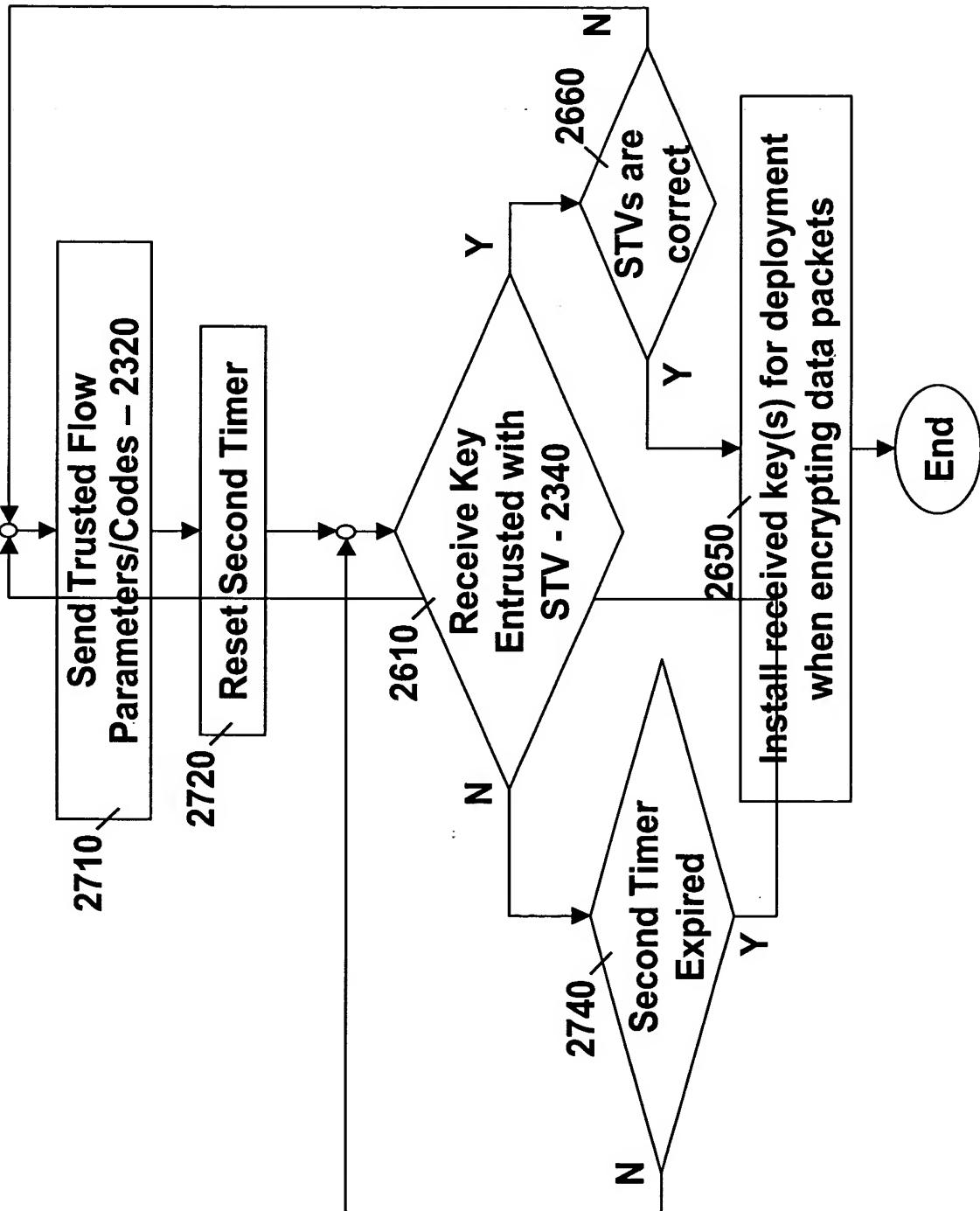


FIG. 28

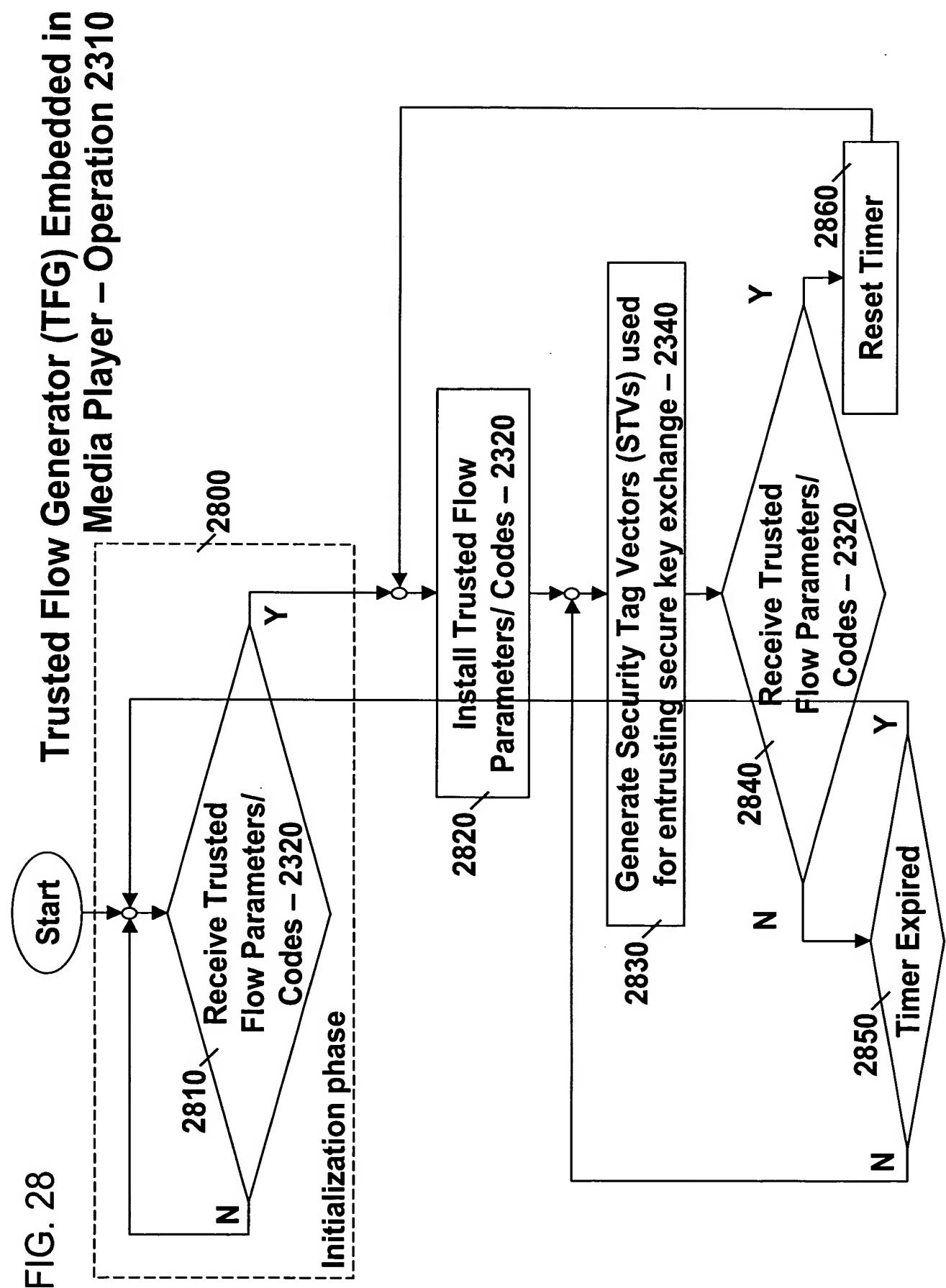


FIG. 29

For protecting handheld/wireless devices
with limited computing/storage power

Second Computer:
Handheld/Wireless
Devices

2920 - Trusted Flow
Parameters/Codes
and
2940 - Secure
Time-stamps

2990 - TTC

For authenticating
During Run-time
Remote Execution

Of Programs Such as:
- Antivirus Program
- Distributed Agents
- Firewall Software

First Computer:
Server and/or
Access Point

2910 - TFG
“Hidden”
In

Programs Such as:
- Antivirus Program
- Distributed Agents
- Firewall Software

2960

2930 - Data Packets
with Security
Tag Vectors - STV

FIG. 30 Handheld/Wireless Device Network Interface

